PATENT COOPERATION TREATY

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TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 310301159W01				FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No.				International filing da	te (day/month/year)	Priority date (day/month/year)	
PCT/JP2004/001486			001486	12.02.200	4		
Internati	onal Pat	ent Classi	fication (IPC) or nation	onal classification and	IPC		
G06	F7/5	8 (20	06.01), H)3K3/84 (20	06.01)		
Applicar HIT		ULS	I SYSTEMS	CO., LTD.			
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2.	This R	EPORT co	onsists of a total of _	4	sheets, including this cover sheet.		
3.	This re	port is als	o accompanied by Al	NNEXES, comprising:			
	a	(sent	to the applicant and	to the International Bu	reau) a total of	sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
	b	٦		Bureau only) a total of	(indicate type and nun	nber of electronic carrier(s))	
						, containing a sequence listing and/or tables	
			thereto, in computer 802 of the Administ	•	s indicated in the Sup	plemental Box Relating to Sequence Listing (see	
4.	This re	port conta	ins indications relation	ng to the following iten	ns:		
	\boxtimes	Box No.	I Basis of the	report			
		Box No.	II Priority				
		Box No.	III Non-establis	shment of opinion with	regard to novelty, inv	entive step and industrial applicability	
	Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with recitations and explanations supporting such state			y of invention			
						ovelty, inventive step or industrial applicability;	
Box No. VI Certain documents cited Box No. VII Certain defects in the internat			VI Certain docu	uments cited			
			ects in the international	application			
Box No. VIII Certain observations on the international application							
Date of submission of the demand				Date of completion of	f this report		
Name and mailing address of the IPEA/JP				Authorized officer			
Essimila Na				Talanhana Na			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/001486

Box	No. I	[Basis of the report						
1.		_	d to the language, this report is based on the internation nder this item.	al application in the language in which it	was filed, unless otherwise				
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
		님	international search (Rule 12.3 and 23.1(b))						
		H	publication of the international application (Rule 12.4)						
	*****	Ш	international preliminary examination (Rule 55.2 and/o						
2.	rece		egard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ng Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to port):						
		the in	nternational application as originally filed/furnished						
	Ш	the de	escription:						
		pages	s		as originally filed/furnished				
		pages	S*	received by this Authority on					
		pages	S*	received by this Authority on					
		the cl	laims:						
		nos.			as originally filed/furnished				
		nos.*		as amended (together with a	ny statement) under Article 19				
		nos.*		received by this Authority on					
		nos.*		received by this Authority on					
		the di	rawings:						
		sheet	s		as originally filed/furnished				
		sheet							
		sheet		received by this Authority on	-				
	П		uence listing and/or any related table(s) – see Suppleme						
3	$\overline{\Box}$	_							
Э.			the description, pages						
		一							
		一	the claims, nos the drawings, sheets/figs						
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4.		This	report has been established as if (some of) the amenda						
	ш	they l	have been considered to go beyond the disclosure as file	•	(Rule 70.2(c)).				
		H	the description, pages						
		H	the claims, nos.						
		\vdash	the drawings, sheets/figs						
			the sequence listing (specify):						
		Ш	any table(s) related to sequence listing (specify):						
*	If ite	ет 4 ар	oplies, some or all of those sheets may be marked "supe	rseded."					

International application No.				
PCT/JP2004/001486				

citations and explanations supporting such statement							
1.	Statement						
	Novelty (N)		Claims	1-15	YE	S	
	Inventive step (IS)		Claims	1-15	YE	S	
	Industrial applicabi	ility (IA)	Claims	1-15	YE	ES	
2.	Citations and explanat	ione (Pulo	70.7)			_	
۷.	*	•	,				
	Document 1	: JP	2003-3	32452 A (Kabushiki Kaisha I	Runesasu		
		Te	chnolo	gy), 21 November 2003			
	Document 2	: WO	2002/0	45139 A (Kabushiki Kaisha B	Runesasu		
		Te	chnolo	gy), 06 June 2002 & EP 1341	214 A1 &		
		US	2004/	0053429 A1			
	Document 3	: US	596310	4 A (VLSI Technology, Inc.)	, 05		
		Oc	tober	1999			
	Document 4	: JP	2003-3	.08363 A (Toshiba Corp.), 13	l April		
		20	03				
	Document 5	• ,TP	2003-	73254 A (Toshiba Corp.). 20) June		

- 2003 & US 2003/0061250 A1
- Document 6: JP 1-114211 A (SGS-Thomson Microelectronics Inc.), 02 May 1989 & EP 308294 A2
- Document 7: WO 01/67231 A (KONINKLIJKE PHILIPS

 ELECTRONICS N. V.), 13 September 2001 & US

 6631390 A & JP 2003-526151 A

The inventions set forth in claims 1 to 15 involve an inventive step in relation to documents 1 to 7 cited in the international search report. Documents 1 and 2 disclose inventions equipped with circuits for generating identification information by means of the voltage that is being superposed onto the voltage difference between

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the threshold voltages. However, the documents in question do not disclose an invention equipped with a circuit for generating random numbers by aggregating the noise that is being superposed onto the voltage difference between the threshold voltages, and it would not have been easy for a person skilled in the art to conceive of such a configuration, which employs the shortcomings of the abovementioned circuit for generating identification information in order to generate random numbers. Furthermore, the feature in question would not have been obvious to a person skilled in the art in the light of the disclosures in documents 3 to 7.